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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/610,551B

Input Set : N:\Crf4\08042003\I610551.raw
Output Set: N:\CRF4\08052003\I610551B.raw

SEQUENCE LISTING

- 1 (1) GENERAL INFORMATION:
2 (i) APPLICANT: Barbas, Carlos F, III
3 Burton, Dennis R
4 Lerner, Richard A
5 (iii) TITLE OF INVENTION: METHODS FOR PRODUCING ANTIBODY LIBRARIES
6 USING UNIVERSAL OR RANDOMIZED IMMUNOGLOBULIN LIGHT CHAINS
7 (iii) NUMBER OF SEQUENCES: 70
8 (iv) CORRESPONDENCE ADDRESS:
9 (A) ADDRESSEE: The Scripps Research Institute
10 (B) STREET: 10666 North Torrey Pines Road, TPC8
11 (C) CITY: La Jolla
12 (D) STATE: CA
13 (E) COUNTRY: USA
14 (F) ZIP: 92037
15 (v) COMPUTER READABLE FORM:
16 (A) MEDIUM TYPE: Floppy disk
17 (B) COMPUTER: IBM PC compatible
18 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
19 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
20 (vi) CURRENT APPLICATION DATA:
21 (A) APPLICATION NUMBER: US/09/610,551B
22 (B) FILING DATE: 05-Jul-2000
23 (C) CLASSIFICATION:
24 (vii) PRIOR APPLICATION DATA:
25 (A) APPLICATION NUMBER: US 07/826,623
26 (B) FILING DATE: 27-JAN-1992
27 (A) APPLICATION NUMBER: US 08/174,674
28 (B) FILING DATE: 28-DEC-1993
29 (A) APPLICATION NUMBER: US 08/300,386
30 (B) FILING DATE: 02-SEP-1994
31 (A) APPLICATION NUMBER: US 08/931,645
32 (B) FILING DATE: 16-SEP-1997
33 (viii) ATTORNEY/AGENT INFORMATION:
34 (A) NAME: Fitting, Thomas
35 (B) REGISTRATION NUMBER: 34,163
36 (C) REFERENCE/DOCKET NUMBER: TSRI 409.1
37 (ix) TELECOMMUNICATION INFORMATION:
38 (A) TELEPHONE: 858-554-2937
39 (B) TELEFAX: 858-554-6312
40 (2) INFORMATION FOR SEQ ID NO: 1:
41 (i) SEQUENCE CHARACTERISTICS:
42 (A) LENGTH: 687 base pairs

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43 (B) TYPE: nucleic acid
 44 (C) STRANDEDNESS: single
 45 (D) TOPOLOGY: linear
 46 (ii) MOLECULE TYPE: cDNA
 47 (iii) HYPOTHETICAL: NO
 48 (iv) ANTI-SENSE: NO
 49 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 50 CTCGAGCAGT CTGGGGCTGA GGTGAAGAAG CCTGGGCCT CGGTGAAGGT CTCCTGCAGG 60
 51 GCTTCTGGAG GCACCTCAA CAATTATGCC ATCAGCTGGG TCGGACAGGG CCCTGGACAA 120
 52 GGCCTTGAGT GGATGGGAGG GATCTCCCT TTCCGTATAA CAGCAAAGTA CGCACAAACAC 180
 53 TTCCAGGGCA GAGTCACCAT TACCGCGGAC GAATCCACGG GCACAGCCTA CATGGAGCTG 240
 54 AGCAGCCTGA GATCTGAGGA CACGGCCATA TATTATGTG CGAGAGGGGA TACGATTTTT 300
 55 GGAGTGACCA TGGGATACTA CGCTATGGAC GTCTGGGGCC AAGGGACCAC GGTCAACCGTC 360
 56 TCCCGAGCCT CCACCAAGGG CCCATCGGTG TTCCCCCTGG CACCCCTCTC CAAGAGCACC 420
 57 TCTGGGGGCA CAGCGGCCCT GGGCTGCGTG GTCAAGGACT ACTTCCCCGA ACCGGTGACG 480
 58 GTGTCGTGGA ACTCAGGCCG CCTGACCAGC GGCCTGACCA CCTTCCCAGG TGTCCTACAG 540
 59 TCCTCAGGAC TCTACTCCCT CAGCAGCGTG GTGACCGTGC CCTCCAGCAG CTTGGGCACC 600
 60 CAGACCTACA TCTGCAACGT GAATCACAAG CCCAGCAACA CCAAGGTGGA CAAGAAAGCA 660
 61 GAGCCCAAAT CTTGTGACAA AACTAGT 687
 63 (2) INFORMATION FOR SEQ ID NO: 2:
 64 (i) SEQUENCE CHARACTERISTICS:
 65 (A) LENGTH: 646 base pairs
 66 (B) TYPE: nucleic acid
 67 (C) STRANDEDNESS: single
 68 (D) TOPOLOGY: linear
 69 (ii) MOLECULE TYPE: cDNA
 70 (iii) HYPOTHETICAL: NO
 71 (iv) ANTI-SENSE: NO
 72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 73 GAGCTCACGC AGTCTCCAGG CACCCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCCTCTCC 60
 74 TGCAGGGCCA GTCACAGTGT TAGCAGGGCC TACTTAGCCT GGTACCAGCA GAAACCTGGC 120
 75 CAGGCTCCCA GGCTCCTCAT CTATGGTACA TCCAGCAGGG CCACTGGCAT CCCAGACAGG 180
 76 TCCAGTGGCA GTGGGTCTGG GACAGACTTC ACTCTCACCA TCAGCAGACT GGAGCCTGAA 240
 77 GATTTTGCAG TGTACTACTG TCAGCAGTAT GGTGGCTCAC CGTGGTTCGG CCAAGGGACC 300
 78 AAGGTGGAAC TCAAACGAAC TGTGGCTGCA CCATCTGTCT TCATCTTCCC GCCATCTGAT 360
 79 GAGCAGTTGA AATCTGGAAC TGCTCTGTGTT GTGTGCTGC TGAATAACTT CTATCCCAGA 420
 80 GAGGCCAAAG TACAGTGGAA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT 480
 81 GTCACAGAGC AGGACAGCAA GGACAGCACC TACAGCTCA GCAGCACCCCT GACGCTGAGC 540
 82 AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA GGGCCTGAGT 600
 83 TCGCCCGTCA CAAAGAGCTT CAACAGGGGA GAGTGTAAAT TCTAGA 646
 85 (2) INFORMATION FOR SEQ ID NO: 3:
 86 (i) SEQUENCE CHARACTERISTICS:
 87 (A) LENGTH: 21 base pairs
 88 (B) TYPE: nucleic acid
 89 (C) STRANDEDNESS: single
 90 (D) TOPOLOGY: linear
 91 (ii) MOLECULE TYPE: cDNA
 92 (iii) HYPOTHETICAL: NO
 93 (iv) ANTI-SENSE: NO

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94      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:                               21
95          GAATTCTAAA CTAGCTAGTC G
97 (2) INFORMATION FOR SEQ ID NO: 4:                                         21
98      (i) SEQUENCE CHARACTERISTICS:
99          (A) LENGTH: 21 base pairs
100         (B) TYPE: nucleic acid
101         (C) STRANDEDNESS: single
102         (D) TOPOLOGY: linear
103      (ii) MOLECULE TYPE: cDNA
104      (iii) HYPOTHETICAL: NO
105      (iv) ANTI-SENSE: YES
106      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
107          ATACTGCTGA CAGTAATACA C
109 (2) INFORMATION FOR SEQ ID NO: 5:                                         21
110      (i) SEQUENCE CHARACTERISTICS:
111          (A) LENGTH: 57 base pairs
112          (B) TYPE: nucleic acid
113          (C) STRANDEDNESS: single
114          (D) TOPOLOGY: linear
115      (ii) MOLECULE TYPE: cDNA
116      (iii) HYPOTHETICAL: NO
117      (iv) ANTI-SENSE: NO
118      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
119          TATTACTGTC AGCAGTATNN KNNKNNKNNK ACTTCGGCG GAGGGACCAA GGTGGAG      57
121 (2) INFORMATION FOR SEQ ID NO: 6:                                         21
122      (i) SEQUENCE CHARACTERISTICS:
123          (A) LENGTH: 21 base pairs
124          (B) TYPE: nucleic acid
125          (C) STRANDEDNESS: single
126          (D) TOPOLOGY: linear
127      (ii) MOLECULE TYPE: cDNA
128      (iii) HYPOTHETICAL: NO
129      (iv) ANTI-SENSE: YES
130      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
131          AATACGACTC ACTATAGGGC G
133 (2) INFORMATION FOR SEQ ID NO: 7:                                         21
134      (i) SEQUENCE CHARACTERISTICS:
135          (A) LENGTH: 48 base pairs
136          (B) TYPE: nucleic acid
137          (C) STRANDEDNESS: single
138          (D) TOPOLOGY: linear
139      (ii) MOLECULE TYPE: cDNA
140      (iii) HYPOTHETICAL: NO
141      (iv) ANTI-SENSE: NO
142      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
143          TATTACTGTC AGCAGTATNN KNNKNNKNNK ACTTCGGCG GAGGGACC
145 (2) INFORMATION FOR SEQ ID NO: 8:                                         48
146      (i) SEQUENCE CHARACTERISTICS:
147          (A) LENGTH: 60 base pairs

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Output Set: N:\CRF4\08052003\I610551B.raw

148 (B) TYPE: nucleic acid
149 (C) STRANDEDNESS: single
150 (D) TOPOLOGY: linear
151 (ii) MOLECULE TYPE: cDNA
152 (iii) HYPOTHETICAL: NO
153 (iv) ANTI-SENSE: NO
154 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
155 TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC CAAGGTGGAG 60
157 (2) INFORMATION FOR SEQ ID NO: 9:
158 (i) SEQUENCE CHARACTERISTICS:
159 (A) LENGTH: 51 base pairs
160 (B) TYPE: nucleic acid
161 (C) STRANDEDNESS: single
162 (D) TOPOLOGY: linear
163 (ii) MOLECULE TYPE: cDNA
164 (iii) HYPOTHETICAL: NO
165 (iv) ANTI-SENSE: NO
166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
167 TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC C 51
169 (2) INFORMATION FOR SEQ ID NO: 10:
170 (i) SEQUENCE CHARACTERISTICS:
171 (A) LENGTH: 75 base pairs
172 (B) TYPE: nucleic acid
173 (C) STRANDEDNESS: single
174 (D) TOPOLOGY: linear
175 (ii) MOLECULE TYPE: cDNA
176 (iii) HYPOTHETICAL: NO
177 (iv) ANTI-SENSE: NO
178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
179 GATTTTGAG TGTATTACTG TCAGCACTAT NNKNNKNNKN NKNNKNNKAC TTTGGCGGA 60
180 GGGACCAAGG TGGAG 75
182 (2) INFORMATION FOR SEQ ID NO: 11:
183 (i) SEQUENCE CHARACTERISTICS:
184 (A) LENGTH: 54 base pairs
185 (B) TYPE: nucleic acid
186 (C) STRANDEDNESS: single
187 (D) TOPOLOGY: linear
188 (ii) MOLECULE TYPE: cDNA
189 (iii) HYPOTHETICAL: NO
190 (iv) ANTI-SENSE: NO
191 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
192 TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKNNKACTT TCGGCAGG GACC 54
194 (2) INFORMATION FOR SEQ ID NO: 12:
195 (i) SEQUENCE CHARACTERISTICS:
196 (A) LENGTH: 75 base pairs
197 (B) TYPE: nucleic acid
198 (C) STRANDEDNESS: single
199 (D) TOPOLOGY: linear
200 (ii) MOLECULE TYPE: cDNA

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Input Set : N:\CrF4\08042003\I610551.raw
 Output Set: N:\CRF4\08052003\I610551B.raw

201	(iii) HYPOTHETICAL: NO	
202	(iv) ANTI-SENSE: NO	
203	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:	
204	GATTTCAG TGTATTACTG TNNKNNKNNK NNKNNKNNK NNKNNKNNKNN KTTCCGGCGGA	60
205	GGGACCAAGG TGGAG	75
207 (2)	INFORMATION FOR SEQ ID NO: 13:	
208	(i) SEQUENCE CHARACTERISTICS:	
209	(A) LENGTH: 70 base pairs	
210	(B) TYPE: nucleic acid	
211	(C) STRANDEDNESS: single	
212	(D) TOPOLOGY: linear	
213	(ii) MOLECULE TYPE: cDNA	
214	(iii) HYPOTHETICAL: NO	
215	(iv) ANTI-SENSE: YES	
216	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:	
217	GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNNMNN MNNMNNMNNA CAGTAGTACA	60
218	CTGCAAAATC	70
220 (2)	INFORMATION FOR SEQ ID NO: 14:	
221	(i) SEQUENCE CHARACTERISTICS:	
222	(A) LENGTH: 76 base pairs	
223	(B) TYPE: nucleic acid	
224	(C) STRANDEDNESS: single	
225	(D) TOPOLOGY: linear	
226	(ii) MOLECULE TYPE: cDNA	
227	(iii) HYPOTHETICAL: NO	
228	(iv) ANTI-SENSE: YES	
229	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:	
230	GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNNMNN MNNMNNMNMM NNMNNACAGT	60
231	AGTACACTGC AAAATC	76
233 (2)	INFORMATION FOR SEQ ID NO: 15:	
234	(i) SEQUENCE CHARACTERISTICS:	
235	(A) LENGTH: 94 base pairs	
236	(B) TYPE: nucleic acid	
237	(C) STRANDEDNESS: single	
238	(D) TOPOLOGY: linear	
239	(ii) MOLECULE TYPE: cDNA	
240	(iii) HYPOTHETICAL: NO	
241	(iv) ANTI-SENSE: YES	
242	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:	
243	GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNNMNN MNNMNNMNMM NNMNNMNNMN	60
244	NMNNMNNMN MNNAAGTAG TACACTGCAA AATC	94
246 (2)	INFORMATION FOR SEQ ID NO: 16:	
247	(i) SEQUENCE CHARACTERISTICS:	
248	(A) LENGTH: 25 base pairs	
249	(B) TYPE: nucleic acid	
250	(C) STRANDEDNESS: single	
251	(D) TOPOLOGY: linear	
252	(ii) MOLECULE TYPE: cDNA	
253	(iii) HYPOTHETICAL: NO	

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/05/2003
PATENT APPLICATION: US/09/610,551B TIME: 15:39:16

Input Set : N:\Crf4\08042003\I610551.raw
Output Set: N:\CRF4\08052003\I610551B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/610,551B

DATE: 08/05/2003

TIME: 15:39:16

Input Set : N:\Crf4\08042003\I610551.raw

Output Set: N:\CRF4\08052003\I610551B.raw

L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:27 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:29 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:31 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)